Year 1/2 Could you live in space? Autumn Term 2nd Half 2016/17

Year 1 Objectives **Year 2 Objectives**

Mathematics

Counting and understanding number

- To count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number.
- To count, read and write numbers to 100 in numerals, count in multiples of twos, fives and tens.
- To identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least.
- To read and write numbers from 1 to 20 in numerals and words.

Number and Place Value

- When given a number, identify one more and one less.
- To identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least.
- To read and write numbers from 1 to 20 in numerals and words.
- To count in steps of 2, 3, and 5 from 0, and count in tens from any number, forward or backward.
- To recognise the place value of each digit in a two-digit number (tens, ones).
- To identify, represent and estimate numbers using different representations, including the number line.
- To compare and order numbers from 0 up to 100; use <, > and = signs.
- To read and write numbers to at least 100 in numerals and in words.
- To use place value and number facts to solve problems.

Addition

- To read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs.
- To represent and use number bonds and related subtraction facts within 20.
- To solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems.
- To solve problems with addition and subtraction:
- Using concrete objects and pictorial representations, including those involving numbers, quantities and measures
- Applying their increasing knowledge of mental and written methods.
- To add and subtract using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones; a two-digit number and tens; two two-digit numbers; adding three one-digit numbers.
- To show that addition can be done in any order (commutative) and subtraction cannot.
- To recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems.

Subtraction

- To read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs.
- To represent and use number bonds and related subtraction facts within 20.
- To add and subtract one-digit and two-digit numbers to 20, including zero.
- To solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems.
- To solve problems with addition and subtraction:
- Using concrete objects and pictorial representations, including those involving numbers, quantities and measures
- Applying their increasing knowledge of mental and written methods.

Science

This term, the children will be learning about humans.

- Observe changes across the four seasons.
- Observe and describe weather associated with the seasons and how day length varies.
- Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses.
- Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.

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- To add and subtract using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones; a two-digit number and tens; two two-digit numbers; adding three one-digit numbers.
- To show that addition can be done in any order (commutative) and subtraction cannot.
- To recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems.

Multiplication and Division

- To recall and use multiplication and division facts for the 2,5 and 10 multiplication tables, including recognising odd and even numbers.
- To calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs.
- To recognise and use the inverse relationship between multiplication and division in calculations.
- To show that multiplication of two numbers can be done in any order
- (commutative) and division for one number by another cannot.
- To solve one-step problems involving multiplication and division, using materials, arrays, repeated addition, mental methods and multiplication and division facts, including problems in contexts.

Fractions

- To recognise, find, name and write fractions 1/3, 1/4, 2/4 and 3/4.
- To write simple fractions for example, 1/2 of 6 = 3 and recognise the equivalence of two quarters and one half.

Geometry

- To order and arrange combinations of mathematical objects in patterns.
- To use mathematical vocabulary to describe position, direction and movement, including distinguishing between rotation as a turn and in terms of right angles for quarter, half and three quarter turns (clockwise and anti-clockwise) and movement in a straight line.
- To compare and sequence intervals of time.
- To tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times.

Measures

- To compare, describe and solve practical problems for: lengths and heights (long/short, longer/shorter, tall/short, double/half), mass or weight (heavy/light, heavier than, lighter than), capacity/volume (full/empty, more than, less than, quarter), time (quicker, slower, earlier, later).
- To recognise and know the value of different denominations of coins and notes.

Data Handling

- To interpret and construct simple pictograms, tally charts, block diagrams and simple tables.
- To ask and answer simple questions by counting the number of object in each category and sorting the categories by quantity.
- To ask and answer questions about totalling and compare categorical data.

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Year 2 Objectives